

WHAT IS CLAIMED IS:

1. In a therapeutic composition containing a biologically active polypeptide and a carrier fluid, which is suitable for oral administration, wherein the improvement comprising:

5 a homogenous carrier fluid containing

A. A small molecule extract derived from an animal spleen obtained by dialysis or ultra filtration of a tissue homogenate of said spleen, said small molecules of said spleen extract having an average molecular weight of about 14000, or less, and containing peptides, nucleotides, and other tissue derived substances, said extract being  
10 further characterized as having a peak absorption at 260nm, and an optical density of 1.0, which is indicative of approximately 50 ug of extract per milliliter.

B. A fluid mixture of substances that are complimentary to said small molecule extract comprising,

- 15 (1) an emulsifier specific for the biologically active polypeptide,  
(2) a immunogenicity suppression agent to reduce the body's humoral and/or cellular response to the biologically active polypeptide, so as to prevent inactivation of the biologically active polypeptide, and  
20 (3) an emulsion stabilizer to preserve the suspension of the biologically active polypeptide within the fluid carrier

2. The improved therapeutic composition of Claim 1, wherein the biologically active polypeptide is Granulocyte Colony Stimulating Factor (G-CSF).

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3. The improved therapeutic composition of Claim 1, wherein the biologically active polypeptide is a Granulocyte Colony Stimulating Factor (G-CSF) analog.

4. The improved therapeutic composition of Claim 1, wherein the biologically active polypeptide is a Granulocyte Colony Stimulating Factor (G-CSF) and said polypeptide is conjugated to Vitamin B12.

5. The improved therapeutic composition of Claim 1, wherein the carrier fluid contains ethylene diamine tetra-acetate (EDTA).

continued

6. In a method for administration of a therapeutic composition containing a biologically active polypeptide and a carrier fluid, wherein the improvement comprising:

A. suspension of said biologically active polypeptide in a homogenous carrier fluid containing

5 (1). A small molecule extract derived from an animal spleen obtained by dialysis or ultra filtration of a tissue homogenate of said spleen, said small molecules of said spleen extract having an average molecular weight of about 14000, or less, and containing peptides, nucleotides, and other tissue derived substances, said extract being further characterized as having a peak absorption at  
10 260nm, and an optical density of 1.0, which is indicative of approximately 50 ug of extract per milliliter.

(2). A fluid mixture of substances that are complimentary to said small molecule extract comprising,

15 (a) an emulsifier specific for the biologically active polypeptide,  
(b) a immunogenicity suppression agent to reduce the body's humoral and/or cellular response to the biologically active polypeptide, so as to prevent inactivation of the  
20 biologically active polypeptide, and  
(c) an emulsion stabilizer to preserve the suspension of the biologically active polypeptide within the fluid carrier

B. Orally administering a therapeutic effective amount of said suspension of  
25 Step (A).

7. The improved method for administration of a therapeutic composition of Claim 6, wherein the biologically active polypeptide is Granulocyte Colony Stimulating Factor (G-CSF).

